

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-



1/12

100

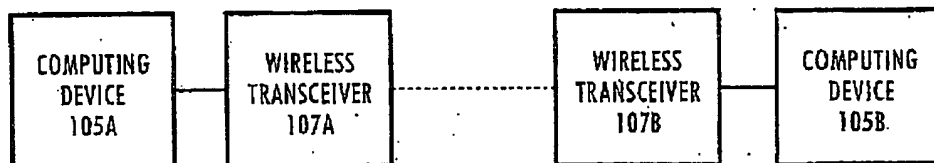


FIG. 1

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

2/12

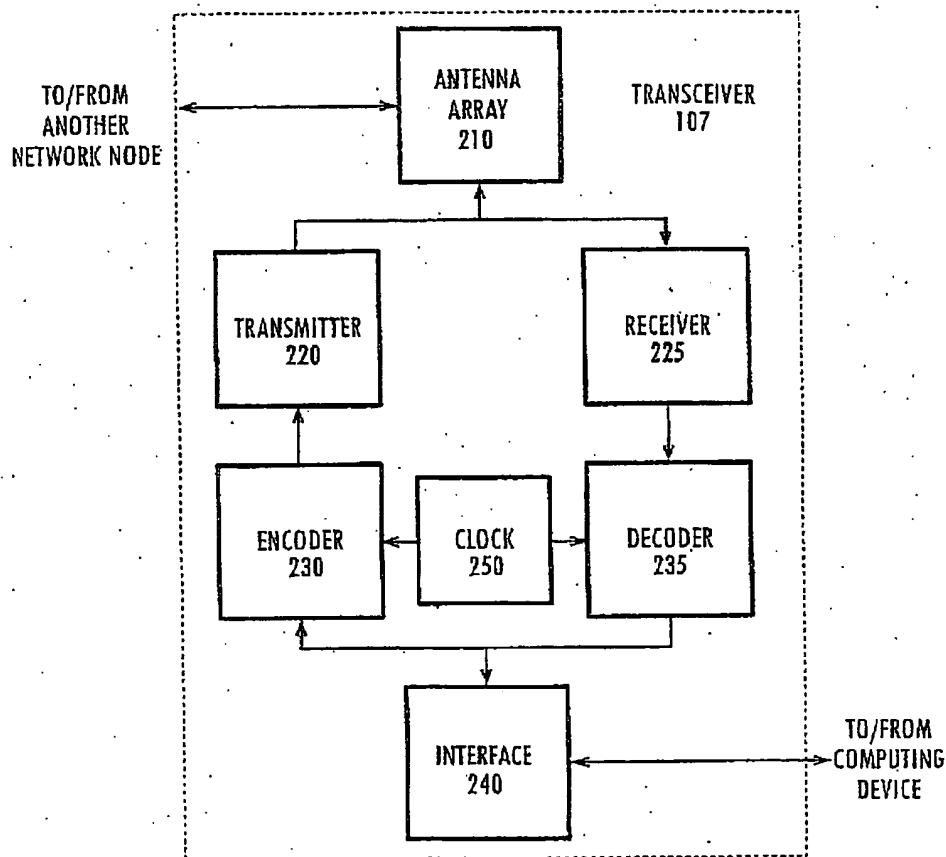


FIG. 2

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

INVENTOR(S): John B. Langley

ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

3/12

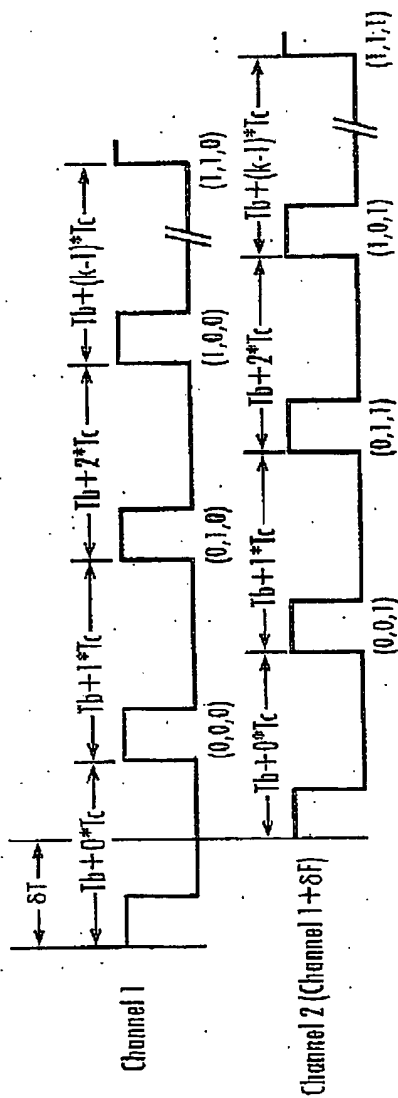


FIG. 3

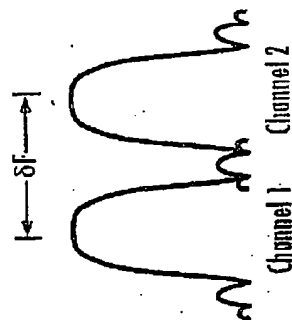


FIG. 4

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

4/12

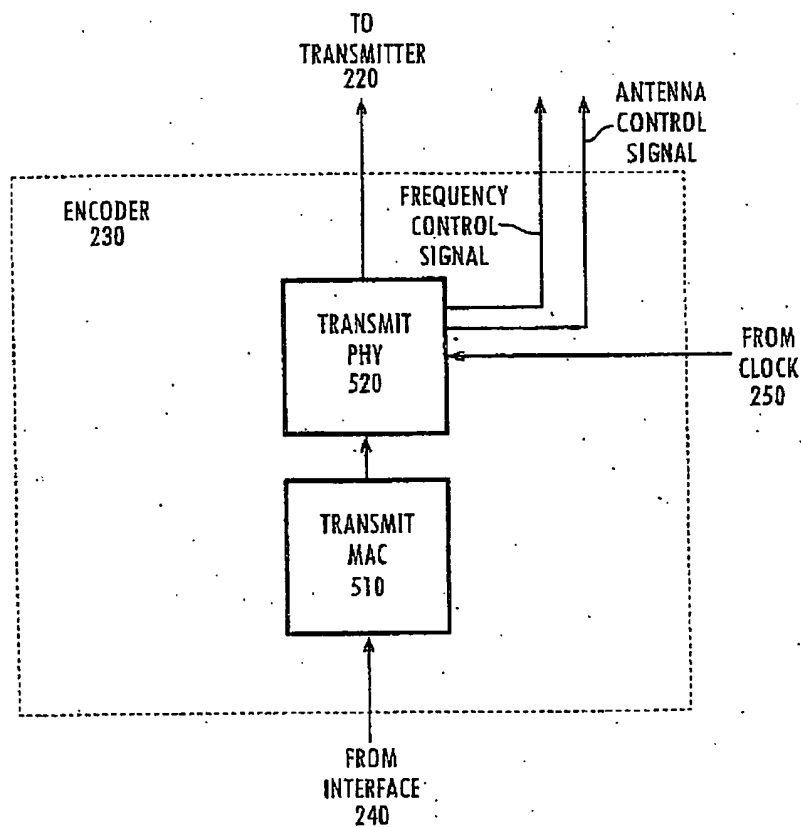


FIG. 5A

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

INVENTOR(S): John B. Langley

ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

5/12

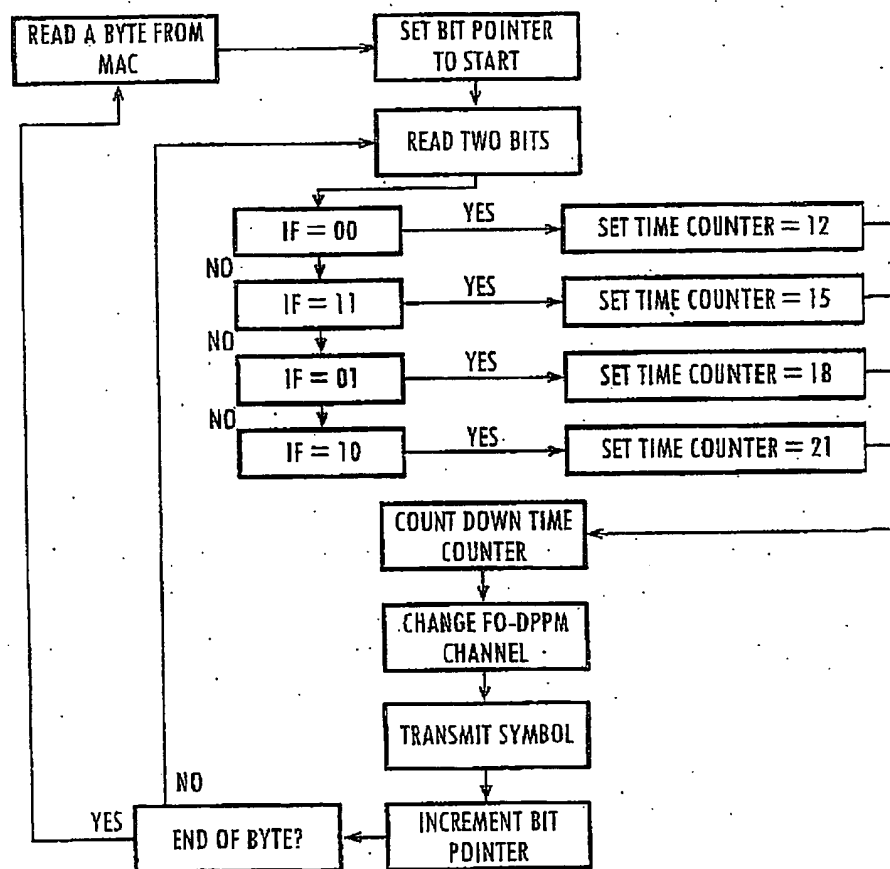


FIG. 5B

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
 INVENTOR(S): John B. Langley
 ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

6/12

Request/events assertion to transmit state machine in the order of priority:

- sx_idle : A/R is idle and ready for access by all nodes
- ack_req : request for acknowledge transmission from the rx_mac
- tx_req : packet is queued for transmission

Wait 10 us (TimeOut) in this state for rx_idle to get asserted, otherwise Do not send the ack-packet since another node has violated the IPG

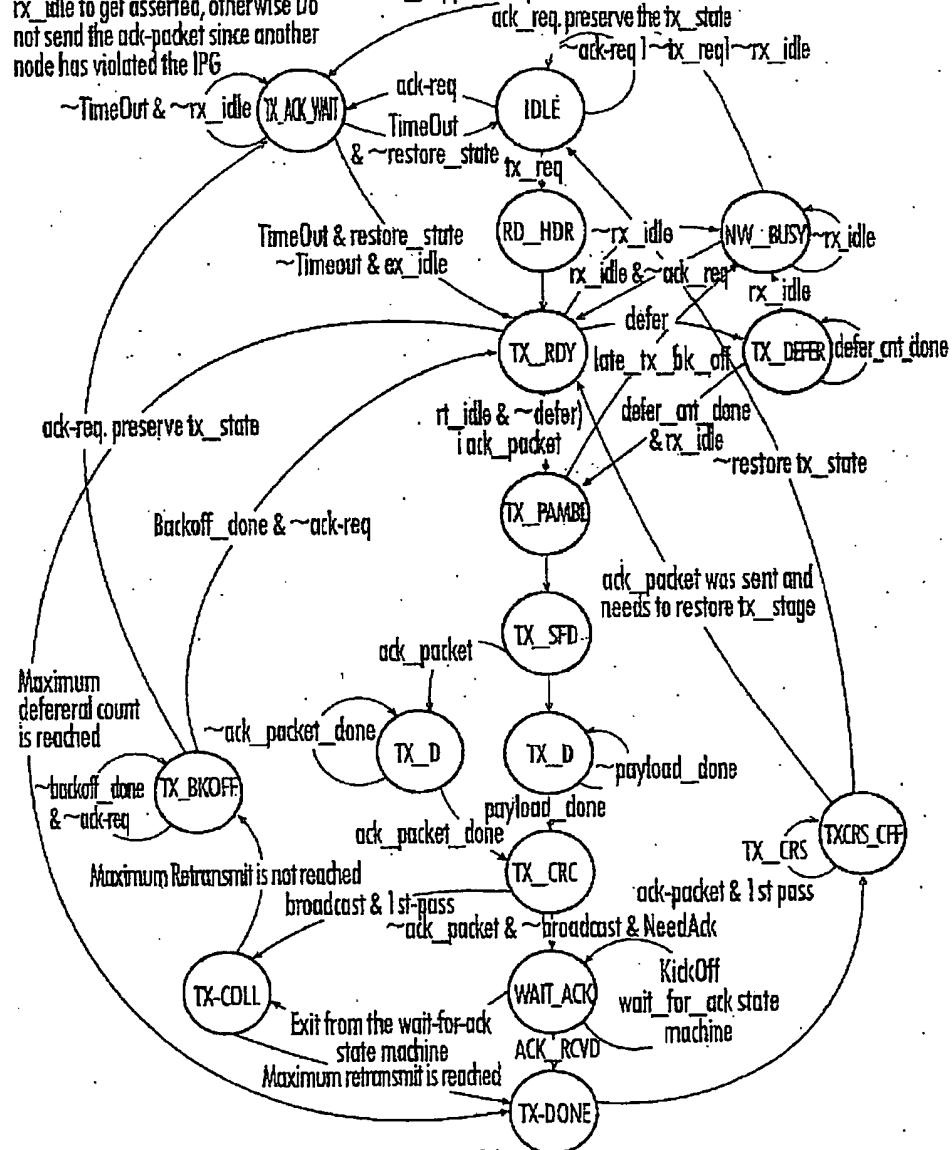
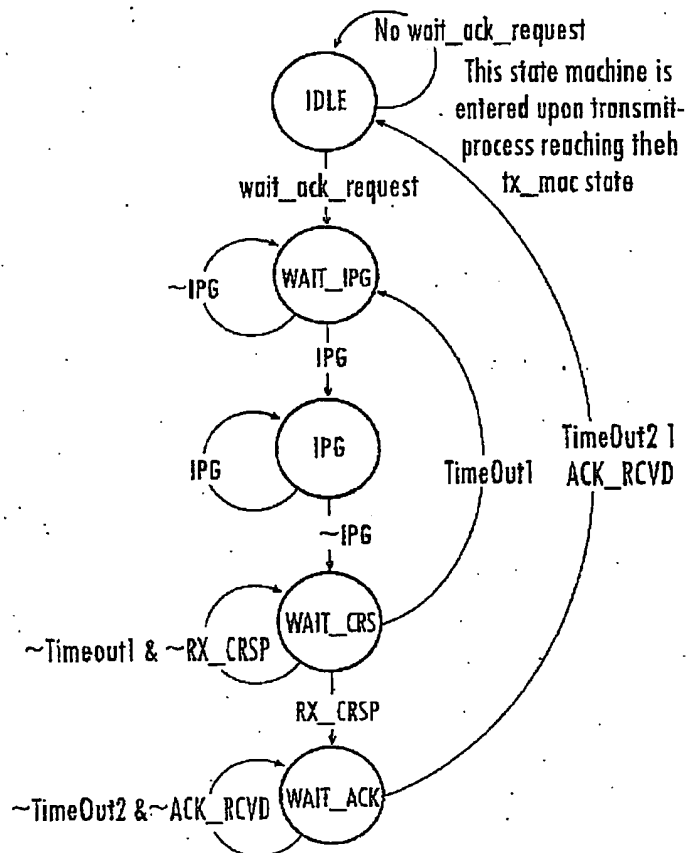


FIG. 5C

TITLE:FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

7/12



TimeOut1, Programmable parameter ACK_WAIT_SIZE:

6, 12, 18, 24, 36, 48, 72, 90 US

TimeOut2, fixed size: 37.125 us which is the maximum length of an
acknowledge packet (24 preamble + sfd + 20 byte ack_packet)

FIG. 5D

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

INVENTOR(S): John B. Langley

ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

8/12

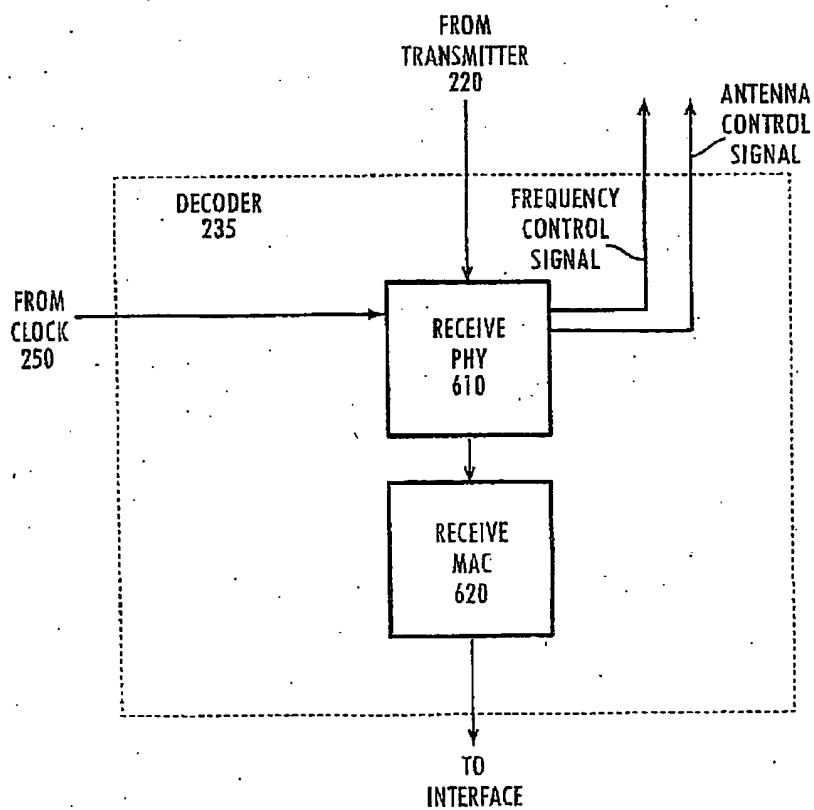


FIG. 6A

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

9/12

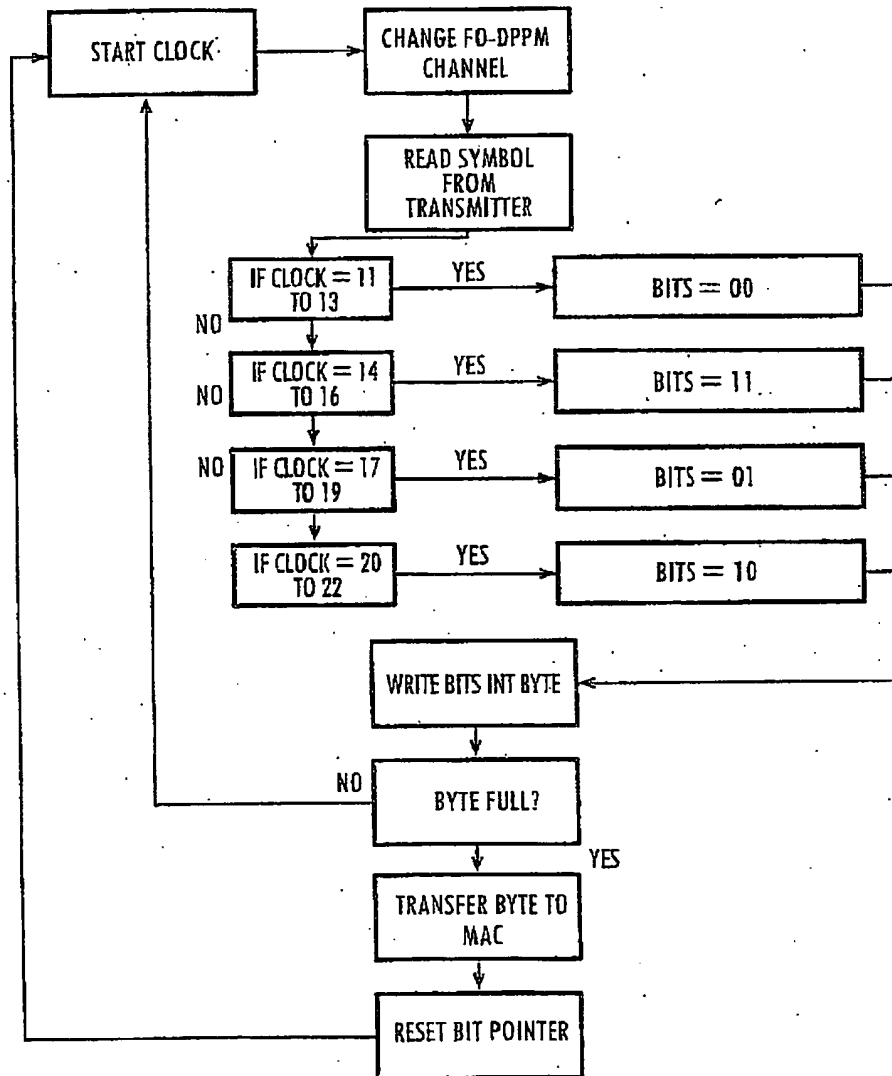


FIG. 6B

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

10/12

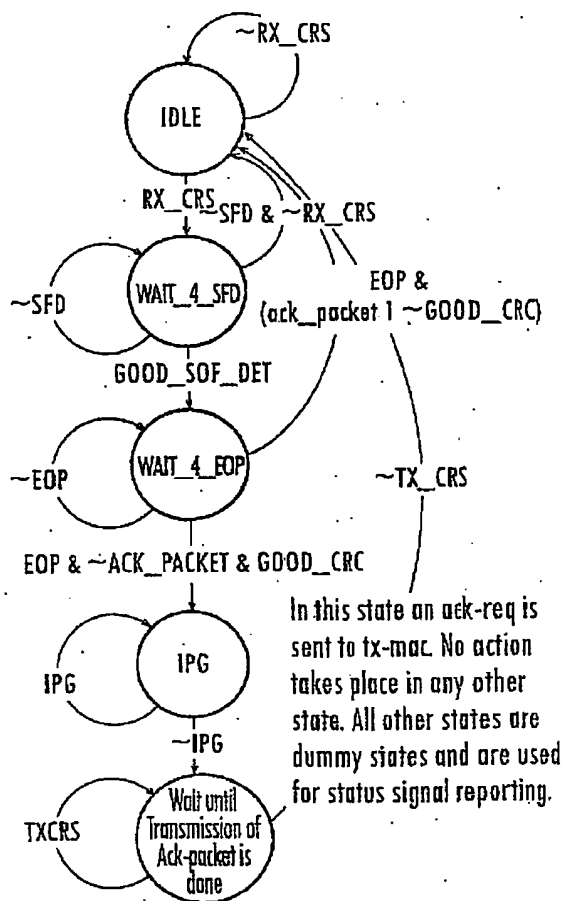


FIG. 6C

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

11/12

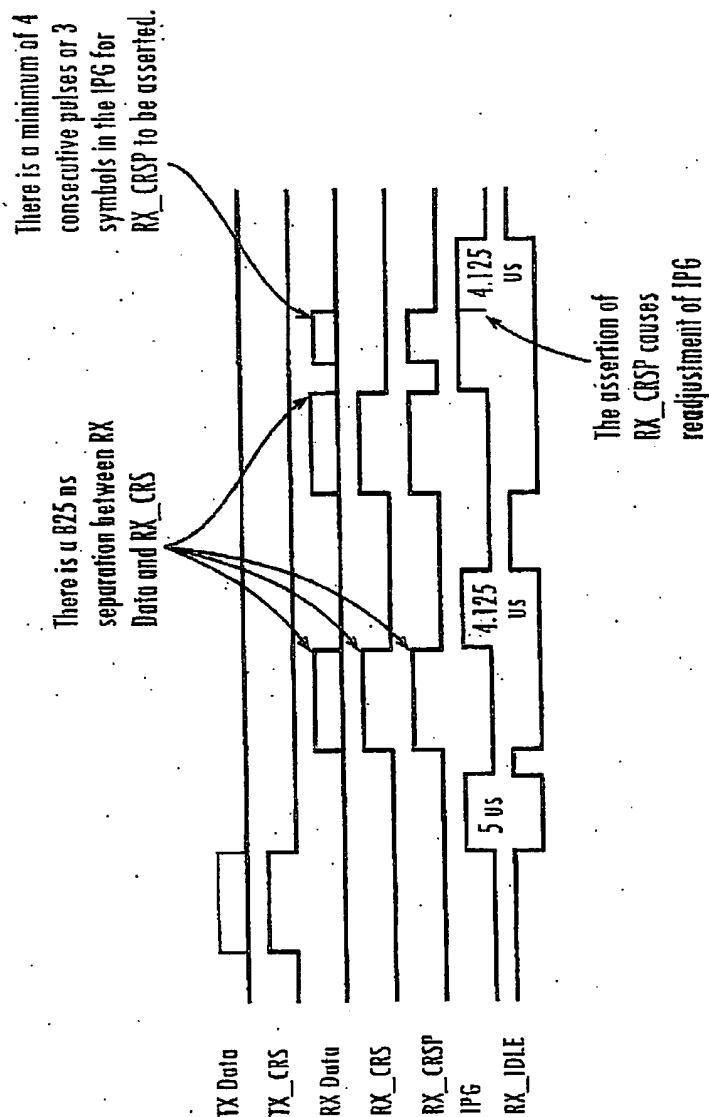


FIG. 6D

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
 INVENTOR(S): John B. Langley
 ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-

12/12

For preamble the following sequence is received: 00, 11, 01, 10 and the state machine tries to lock on this sequence.
 For SFD the sequence is 00, 00, 01, 11

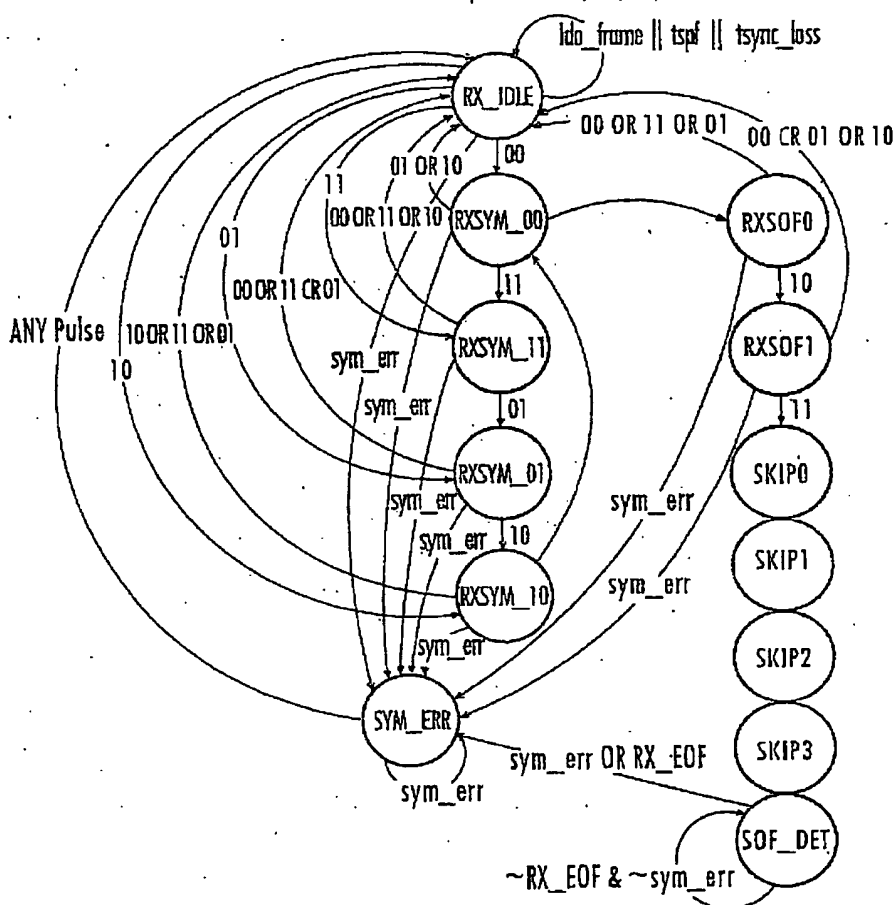


FIG. 6E

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.